



JOINT HIGHWAY RESEARCH PROJECT

JHRP-79-4

TRAFFIC SPEED REPORT NO. 108

R. P. Guenthner

G. K. Stafford



TRAFFIC SPEED REPORT NO. 108

TO: Harold L. Michael, Director
Joint Highway Research Project

FROM: Richard P. Guenthner
Graduate Instructor in Research
Joint Highway Research Project

July 11, 1979

File: 8-3-3

Project: C-36-10C

The attached Progress Report No. 108 on Traffic Speeds is the report of the January - March 1979 quarterly study of free-flowing automobile and truck speeds on rural, tangent, level sections of Interstate, 4-lane, and 2-lane and on urban interstate highways in Indiana. The report has been prepared by Mr. R. P. Guenthner, a Graduate Instructor in Research on our staff, under the direction of Professor H. L. Michael. The data collection was directed by Mr. G. K. Stafford of our staff.

The results indicate that the average speed for all vehicles is relatively unchanged from the previous quarterly report. The overall average speed for passenger cars had decreased by only 0.5 mph and the average speed for trucks has shown a decrease of 0.2 mph.

Overall trends for the past year indicate relatively unchanged speeds. The exception was the July-September quarter which indicated overall speeds approximately 1 mph lower than the other three quarters.

Copies of the report will be sent to the Federal Highway Administration and the ISHC for review, comment, and acceptance as partial fulfillment of the objectives of this HPR Part I Study. Copies of the report are requested for release to the Indiana State Police and the Indiana Office of Traffic Safety as a normal procedure for these reports.

Respectfully submitted,



Richard P. Guenthner
Graduate Instructor in Research

rpg:kes

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Interim Report
TRAFFIC SPEED REPORT NO. 108

by

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and

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and the

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The opinions, findings and conclusions expressed in this publication are those of the authors and not necessarily those of the Federal Highway Administration.

Purdue University
West Lafayette, Indiana
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16. Abstract This report is another in the continuing study of speeds of vehicles on Indiana highways. Observation of spot speeds were taken on interstate, four-lane and two-lane highways throughout the state during the January - March 1979 quarter. Analysis of the speeds showed the overall average speed for all vehicles was 58.0 mph. The overall average speed for passenger cars and all trucks was 58.3 mph and 57.4 mph respectively. These overall average speeds were 0.5 mph less for passenger cars and 0.2 mph less for trucks than speeds found in the October - December 1978 study (Speed Report No. 107).			
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TRAFFIC SPEED REPORT NO. 108

This report is an analysis of spot speed observations made between January and March 1979. Due to inclement weather in March, a few observations were made in early April. All observations were of free flowing vehicles on level, tangent sections of rural and urban highways. All observations were made during daylight under favorable weather conditions.

The speed monitoring stations for each highway classification were divided into two groups. The first group is identified as "control stations" and studied from the same locations on selected Federal and State highways as used in previous studies. Seven "primary control stations" are used in each quarterly study. The second group of seven stations is selected at random for each quarterly study. A total of fourteen speed monitoring stations were used for this reported study.

Stations were classified as rural two-lane, four-lane, or interstate, or urban interstate highways. A representative sample of spot speeds was obtained at each station in each classification. The site locations follow and are also shown in Figure A.

Rural Interstate Highways

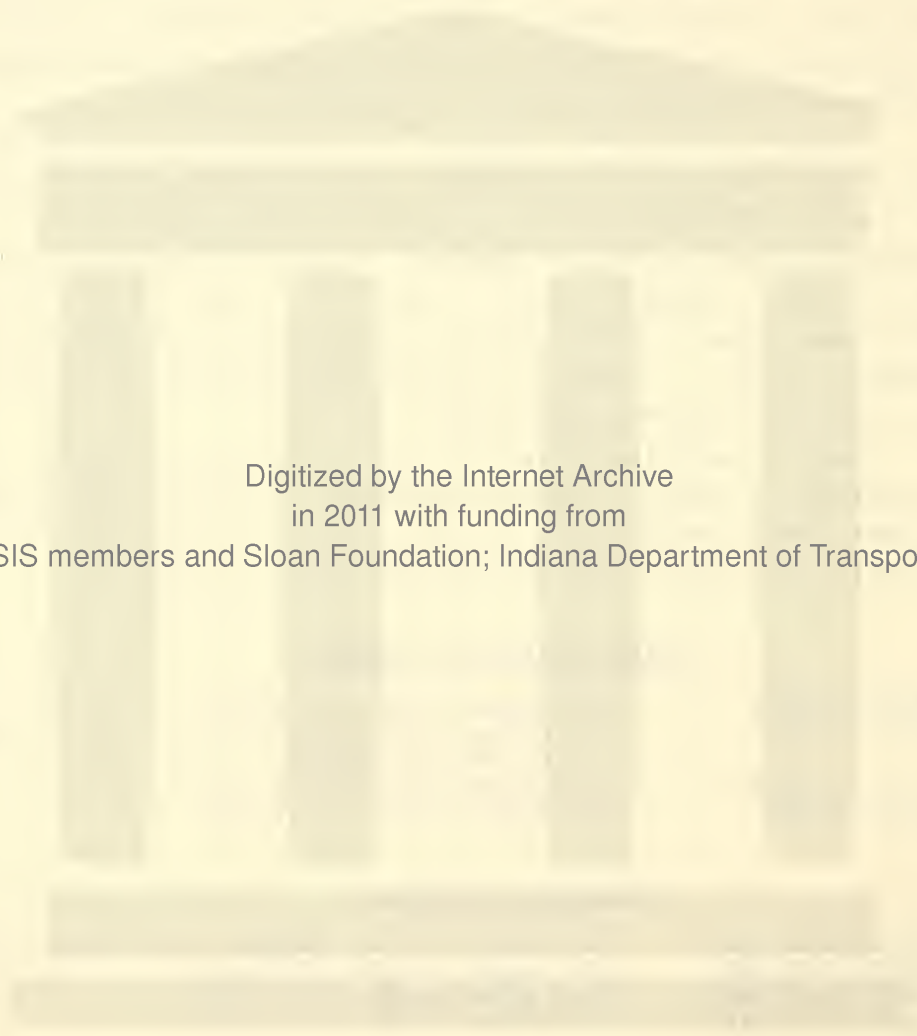
*RI-21 (I-69)	1.6 miles south of S.R. 18
*RI-6 (I-65)	2.3 miles south of S.R. 56, 50 yards south of 27 mile marker
RI-5 (I-64)	5.35 miles east of S.R. 135
RI-20 (I-69)	2.4 miles north of S.R. 28

Four-Lane Highways

*4L-32 (U.S. 30)	2.9 miles west of Wanatak City limit sign
*4L-17 (U.S. 52)	150' east of C.R. 475 West
4L-7 (U.S. 40)	11.9 miles east of U.S. 231
4L-26 (S.R. 9)	2.55 miles south of S.R. 128

Two-Lane Highways

*2L-18 (U.S. 35)	2.5 miles east of I-69
*2L-54 (U.S. 231)	1.1 miles south of S.R. 234
2L-30 (U.S. 52)	1.1 miles east of New Palestine
2L-23 (S.R. 28)	1.8 miles west of S.R. 341



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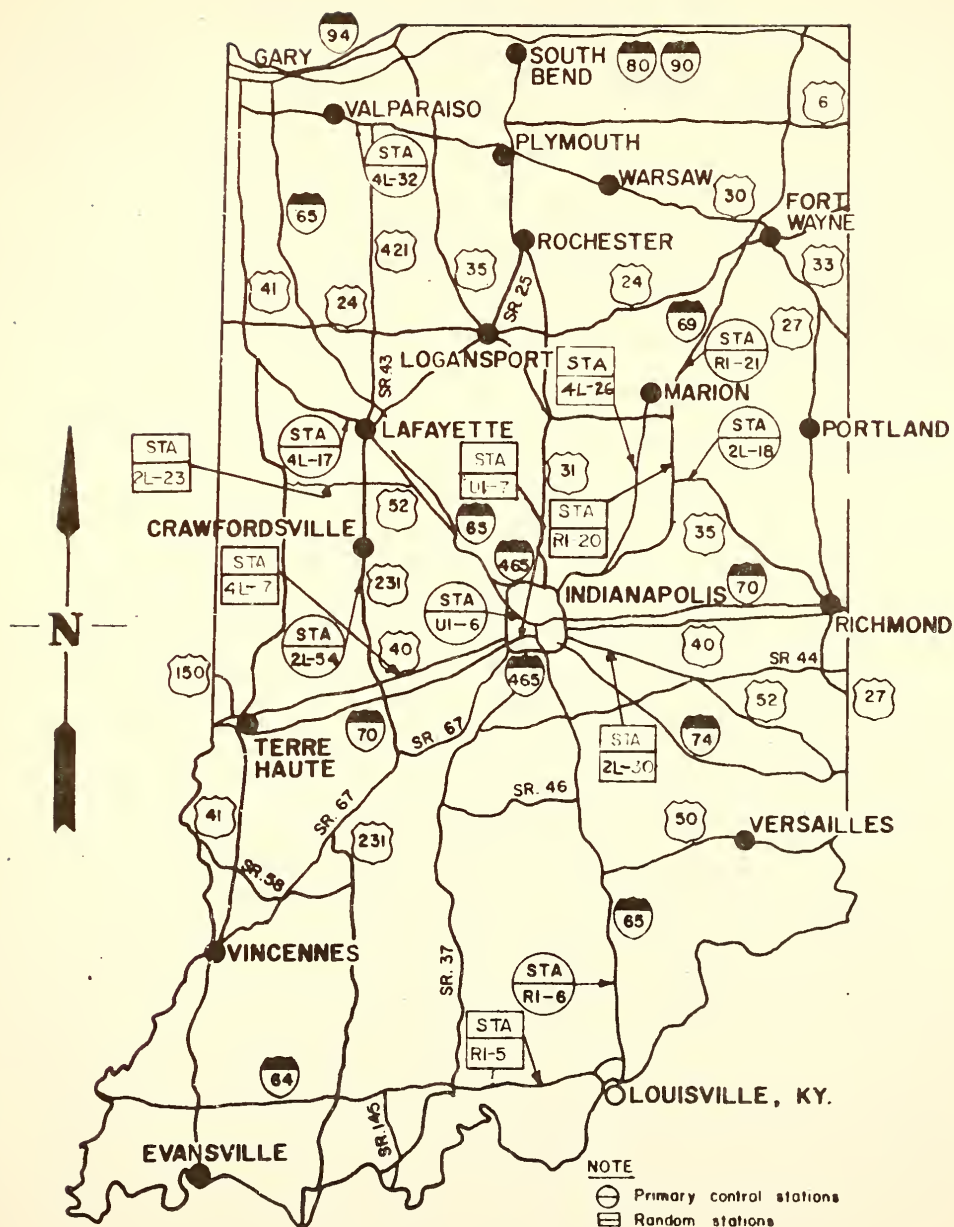


FIGURE A. LOCATIONS OF SPEED-STUDY STATIONS

Urban Interstate Highways

*UI-6 (I-65)	Just east of White River
UI-7 (I-70)	0.6 miles east of I-465 west leg

*Primary Control Stations.

The vehicles were classified as Indiana or Non-Indiana Passenger Cars and Light (less than 5,000 lbs. gross weight) or Heavy (equal to or more than 5,000 lbs. gross weight) Trucks. The analysis was performed as classified and combined, passenger cars or trucks.

The maximum speed limit is 55 mph at all speed monitoring stations.

Equipment and Field Procedure

The observations for this study were obtained by use of a Radar Speed Meter. The meter was located in a van type vehicle parked as a disabled vehicle on the right shoulder or as a normally parked vehicle in an access driveway to the road. The van was equipped with one-way vision windows on the side facing traffic and the rear window was shuttered so that approaching vehicles could not observe the speed measurement process. The observers were also equipped with CB radio equipment so as to monitor possible radio notification of the speed measurement and of police vehicles in the area. When any such incidents occurred speeds were not taken for at least a 15 minute period following. Such periods rarely occurred on other than interstate roads where they occurred frequently.

The speed was measured at a distance from the van so that the angle of measurement with the highway center line was always less than 10° . No corrections of speeds were necessary at these small angles. At the beginning of the study the accuracy of the meter was checked and any constant discrepancy of readings was corrected accordingly.

RESULTS OF ANALYSIS

The data collected were analyzed and are summed in Tables 1 to 14 in the Appendix. Tables 15, 16, 17, and 18 summarize the data for rural interstate, four-lane, two-lane, and urban interstate highways, respectively. Table 19 is the summary for all highways. Tables 20 through 34 are summaries in FHWA format which that organization requires.

The overall speed trends for this study are as follows:

<u>All Vehicles</u>	<u>Jan.-Mar. 1979</u>	<u>Oct.-Dec. 1978</u>	<u>July-Sept. 1978</u>	<u>April-June 1978</u>
Average	58.0	58.3	57.2	58.1
85 Percentile	63.1	63.0	61.9	62.9
Percent exceeding 55 mph	69.2	72.3	64.7	70.0
Percent exceeding 60 mph	31.3	33.0	25.1	31.0
Percent exceeding 65 mph	8.5	8.5	6.0	8.0

The average speed for each classification of vehicles on each type of highway for this study was as follows:

	<u>Interstate</u>		<u>Other Four Lane</u>	<u>Two Lane</u>
	<u>Urban</u>	<u>Rural</u>	<u>Rural</u>	<u>Rural</u>
<u>Passenger Cars:</u>				
Indiana	58.8	60.4	56.8	57.3
Non-Indiana	59.2	60.4	58.1	58.8
All Passenger Cars	58.8	60.4	56.9	57.4
85 Percentile (all)	62.6	64.5	62.1	62.8
<u>Trucks:</u>				
Less than 5,000 lbs.	57.9	59.1	56.4	56.8
5,000 lbs. or more	56.9	60.4	56.2	55.2
<u>All Vehicles:</u>				
Average	58.2	60.2	56.7	56.9
85 Percentile	62.2	64.6	62.0	62.3

The percent of vehicles exceeding the speed limit (55 mph) for each classification of vehicle and each type of highway was as follows:

	<u>Interstate</u>		<u>Other</u> <u>Four Lane</u>	<u>Two Lane</u>
	<u>Urban</u>	<u>Rural</u>	<u>Rural</u>	<u>Rural</u>
<u>Passenger Cars:</u>				
Indiana	79.0	87.0	60.5	61.8
Non-Indiana	78.3	83.9	75.0	75.6
All Passenger Cars	78.9	86.1	61.9	62.8
<u>Trucks:</u>				
Less than 5,000 lbs.	72.5	78.4	60.8	57.5
5,000 lbs. or more	68.2	86.1	58.0	47.7
<u>All Vehicles:</u>	75.3	85.0	61.0	58.9

The percent of vehicles traveling more than 5 mph above the speed limit (exceeding 60 mph) for each case was as follows:

	<u>Interstate</u>		<u>Other</u> <u>Four Lane</u>	<u>Two Lane</u>
	<u>Urban</u>	<u>Rural</u>	<u>Rural</u>	<u>Rural</u>
<u>Passenger Cars:</u>				
Indiana	30.0	46.2	23.8	26.3
Non-Indiana	28.3	47.3	27.9	37.2
All Passenger Cars	29.8	46.6	24.2	27.1
<u>Trucks:</u>				
Less than 4,000 lbs.	28.1	40.0	23.1	26.8
5,000 lbs. or more	22.8	49.8	22.3	19.5
<u>All Vehicles:</u>	27.9	46.4	23.7	25.6

The percent of vehicles traveling more than 10 mph above the speed limit (exceeding 65 mph) for each case was as follows:

	<u>Interstate</u>		<u>Other</u> <u>Four Lane</u>	<u>Two Lane</u>
	<u>Urban</u>	<u>Rural</u>	<u>Rural</u>	<u>Rural</u>
<u>Passenger Cars:</u>				
Indiana	6.0	13.0	6.5	9.4
Non-Indiana	10.0	13.9	8.7	14.1
All Passenger Cars	6.5	13.3	6.7	9.7
<u>Trucks:</u>				
Less than 5,000 lbs.	3.6	9.2	5.0	7.1
5,000 lbs. or more	3.7	14.1	4.3	4.3
<u>All Vehicles:</u>	5.3	12.9	5.9	8.2

Summary and Conclusions

Overall average speed for all vehicles and passenger cars in the January - March 1979 study were found to be 58.0 and 58.3 mph, respectively. These overall average speeds for all vehicles and passenger cars are respectively 0.3 and 0.5 mph below the results of the October - December 1978 study. The overall average speeds for all trucks and heavy trucks in this January - March 1979 study were found to be 57.4 and 57.6 mph respectively. These figures show a 0.3 and 0.2 mph decrease over the previous quarter. The conclusion can be made that these changes are relatively insignificant.

Table A presents a comparison of the overall speed results with that of the previous three studies. It may be noted that the overall speeds are very stable for the January - March 1979, the October - December 1978, and the April - June 1978 studies. However, the July - September 1978 indicates that the speeds for that quarter were about 1 mph lower for all classes of vehicles.

A comparison of January - March 1979 speed data with that for other recent periods for each type of highway is shown in Tables B, C, D, and E.

These tables show that the changes in speeds from the previous quarter are about the same for interstate highways as for all highways. One exception is that heavy trucks showed an increase in speed of 0.5 mph on rural interstate.

However, Table D indicates that speeds have dropped on other four lane highways for all vehicle classifications. Passenger cars showed a drop in speed of 1.1 mph from the October - December 1978 study. Heavy trucks were down in speed by 2.1 mph over the same time period.

Table E indicates that speeds over the last two studies are rather stable on two lane highways. The largest change is a drop of 0.5 mph for out-of-state passenger cars.

Table A
Comparison of the Overall Speed Results

	Jan.-March 1979	Oct.-Dec. 1978	July-Sept. 1978	April-June 1978
<u>Average:</u>				
All Passenger Cars	58.3	58.8	57.6	58.4
Heavy Trucks	57.6	57.8	57.3	57.9
All Trucks	57.4	57.7	56.8	57.6
<u>85 Percentile:</u>				
All Passenger Cars	63.2	63.2	62.1	63.1
Heavy Trucks	63.2	62.9	62.2	62.7
All Trucks	63.0	62.7	61.7	62.7
<u>15 Percentile:</u>				
Heavy Trucks	51.5	51.6	51.6	52.1

Table B
Average Speeds on Interstate Highways (Urban)

	Jan.-March 1979	Oct.-Dec. 1978	July-Sept. 1978	April-June 1978
<u>Passenger Cars:</u>				
Indiana	58.8	59.3	58.0	59.2
Non-Indiana	59.2	59.7	57.9	57.9
All Passenger Cars	58.8	59.3	58.0	59.1
85 Percentile (all)	62.6	62.9	62.1	62.9
<u>Trucks:</u>				
Less than 5,000 lbs.	57.9	58.7	56.5	58.4
5,000 lbs. or more	56.9	57.8	56.8	57.7

Table C
Average Speeds on Interstate Highways (Rural)

	Jan.-March 1979	Oct.-Dec. 1978	July-Sept. 1978	April-June 1978
<u>Passenger Cars:</u>				
Indiana	60.4	60.8	58.5	60.5
Non-Indiana	60.4	60.6	60.1	60.5
All Passenger Cars	60.4	60.7	59.2	60.5
85 Percentile (all)	64.5	64.7	63.1	64.9
<u>Trucks:</u>				
Less than 5,000 lbs.	59.1	59.4	58.2	59.3
5,000 lbs. or more	60.4	59.9	59.4	60.0

Table D
Average Speeds on Other Four-Lane Highways

	Jan.-March 1979	Oct.-Dec. 1978	July-Sept. 1978	April-June 1978
<u>Passenger Cars:</u>				
Indiana	56.8	57.8	56.9	57.5
Non-Indiana	58.1	59.5	57.5	58.2
All Passenger Cars	56.9	58.0	56.9	57.6
85 Percentile (all)	62.1	62.6	61.6	62.2
<u>Trucks:</u>				
Less than 5,000 lbs.	56.4	56.9	55.4	57.2
5,000 lbs. or more	56.2	58.3	56.2	57.9

Table E
Average Speeds on Two-Lane Highways

	Jan.-March 1979	Oct.-Dec. 1978	July-Sept. 1978	April-June 1978
<u>Passenger Cars:</u>				
Indiana	57.3	57.3	56.4	56.5
Non-Indiana	58.8	58.3	56.2	57.5
All Passenger Cars	57.4	57.4	56.4	56.8
85 Percentile (all)	62.8	62.0	61.0	61.6
<u>Trucks:</u>				
Less than 5,000 lbs.	56.8	56.6	55.0	55.3
5,000 lbs. or more	55.3	54.9	55.5	54.9

APPENDIX

TABLE 1. SPEED DATA

STATION RI-6 HIGHWAY I-65 LOCATION 7.5 miles north of S.R. 160 WEATHER partly sunny

NO. OF LANES 4 TYPE OF SURFACE concrete

THIS OBSERVATION DATE 4-5-79 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 107)

TIME 1:10-2:15 PM NB TIME 9:18-10:32 AM NB

TIME 11:48 AM - 12:53 PM SB TIME 10:48-11:43 AM SB

OBSERVATION	ALL			PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
	LAST	PRES-	ENI	LAST	PRES-	ENI	LAST	PRES-	ENI	LAST	PRES-	ENI	LAST	PRES-	ENI
NUMBER OF VEHICLES	226	300		192	214		34	86		216	147		59	60	
AVE. SPEED (MPH)	61.20	60.69		61.20	60.70		61.00	60.66		60.80	60.85		58.70	59.80	
STANDARD DEVIATION	4.734	4.273		4.848	4.410		4.093	3.937		5.253	4.816		6.316	4.609	
24 MPH	0	0		0	0		0	0		0	0		0	0	
29 MPH	0	0		0	0		0	0		0	0		0	0	
34 MPH	0	0		0	0		0	0		0	0		0	0	
39 MPH	0	0		0	0		0	0		0	0		0	0	
44 MPH	0	0		0	0		0	0		0	0		0	0	
49 MPH	9	0		1.0	0		0	0		0	0		0	0	
54 MPH	5.8	6.7		6.3	6.1		2.2	8.1		11.1	1.4		6.8	1.7	
59 MPH	36.3	38.7		35.9	39.3		38.2	37.2		40.1	8.2		23.7	10.0	
64 MPH	79.6	83.3		79.7	82.7		79.4	84.9		78.2	78.2		88.1	86.7	
69 MPH	94.7	97.3		94.3	96.7		97.1	98.8		93.4	93.9		94.9	96.7	
74 MPH	99.1	99.7		99.0	99.5		100.0	100.0		99.1	100.0		96.6	100.0	
79 MPH	99.6	100.0		99.5	100.0		100.0	100.0		100.0	100.0		100.0	100.0	
84 MPH	100.0	100.0		100.0	100.0		100.0	100.0		100.0	100.0		100.0	100.0	
89 MPH	100.0	100.0		100.0	100.0		100.0	100.0		100.0	100.0		100.0	100.0	
DIRECTION	NB														
NUMBER OF VEHICLES	92	156		79	113		13	43		127	77		22	32	
AVERAGE SPEED	61.70	61.03		61.80	61.04		60.80	61.02		62.00	60.69		60.50	59.06	
DIRECTION	SB														
NUMBER OF VEHICLES	134	144		113	101		21	43		89	70		37	28	
AVERAGE SPEED	60.90	60.32		60.80	60.33		61.20	60.30		59.10	61.13		57.60	60.20	

TABLE 2 SPEED DATA

STATION RI-21 HIGHWAY I-69 LOCATION 1.6 miles south of S.R. 18
 NO. OF LANES 4 TYPE OF SURFACE blacktop WEATHER clear
 THIS OBSERVATION
 DATE 3-14-79
 TIME 11:15 AM 12:24 PM NB
 12:42 1:48 AM SB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 107)
 DATE 10-2-78
 TIME 2:21 - 3:52 PM NB
 4:05 - 5:15 PM SB

	PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
	ALL	PRES-	INDIANA	PRES-	LAST	ENT	LAST	ENT	PRES-	LAST	ENT	PRES-
OBSERVATION	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
NUMBER OF VEHICLES	343	238	267	139	76	99	176	189	85	60	91	129
AVE. SPEED (MPH)	61.20	59.42	61.10	59.74	61.70	58.96	60.50	58.89	60.70	58.07	60.20	59.27
STANDARD DEVIATION	4.857	4.799	4.797	5.022	5.064	4.451	4.905	4.993	5.095	4.787	4.738	5.559
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
28 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	4	0	7	0	0	0	5	0	0	0	0
49 MPH	3	29	0	29	13	30	6	53	0	67	11	47
54 MPH	70	134	71	137	66	131	108	162	106	233	110	147
59 MPH	359	422	372	461	303	535	455	524	459	583	451	467
64 MPH	796	887	805	856	763	929	773	873	763	950	780	837
69 MPH	953	971	955	957	947	990	966	1000	953	1000	978	1000
74 MPH	985	1000	989	1000	974	1000	994	1000	988	1000	1000	1000
79 MPH	994	1000	993	1000	1000	1000	1000	1000	1000	1000	1000	1000
84 MPH	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
89 MPH	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
DIRECTION NB												
NUMBER OF VEHICLES	170	112	132	62	38	50	86	101	43	33	43	43
AVERAGE SPEED	61.80	60.38	61.70	60.98	62.20	59.64	61.30	60.25	60.90	58.70	61.70	61.70
DIRECTION SB												
NUMBER OF VEHICLES	173	126	135	77	38	49	90	88	42	27	48	48
AVERAGE SPEED	60.60	58.56	60.40	58.74	61.30	58.27	59.60	57.33	60.50	57.30	58.90	57.70

TABLE 3 SPEED DATA

STATION RI-5 HIGHWAY I-64 LOCATION 5.35 miles east of S.R. 135
 NO. OF LANES 4 TYPE OF SURFACE concrete WEATHER cloudy

THIS OBSERVATION DATE 4-9-79 LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
 TIME 11:10 AM 12:10 AM EB DATE
 12:25 PM 1:45 PM WB TIME

	PASSENGER CARS				NON-INDIANA				ALL				TRUCKS			
	ALL	PRES-	INDIANA	PRES-	ALL	PRES-	INDIANA	PRES-	ALL	PRES-	INDIANA	PRES-	<5000 LBS.	PRES-	>5000 LBS.	PRES-
OBSERVATION	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
NUMBER OF VEHICLES	0	253	0	183	0	70	0	178	0	89	0	89	0	89	0	89
AVE. SPEED (MPH)	0	60.32	0	59.28	0	61.21	0	60.16	0	59.55	0	59.55	0	59.55	0	60.72
STANDARD DEVIATION	0	5.338	0	5.314	0	5.338	0	5.840	0	5.952	0	5.952	0	5.952	0	5.692
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 MPH	0	1.2	0	1.1	0	1.4	0	4.5	0	0	0	0	0	0	0	0
54 MPH	0	9.9	0	11.5	0	5.7	0	15.7	0	18.9	0	18.9	0	18.9	0	14.6
59 MPH	0	47.0	0	50.8	0	37.1	0	44.4	0	48.3	0	48.3	0	48.3	0	40.4
64 MPH	0	83.8	0	85.8	0	78.6	0	75.8	0	83.1	0	83.1	0	83.1	0	68.5
69 MPH	0	93.3	0	94.0	0	91.4	0	94.4	0	93.7	0	93.7	0	93.7	0	82.5
74 MPH	0	98.4	0	98.4	0	98.6	0	99.4	0	98.9	0	98.9	0	98.9	0	100.0
79 MPH	0	99.6	0	99.6	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION	EB															
NUMBER OF VEHICLES	0	114	0	85	0	29	0	105	0	49	0	49	0	49	0	56
AVERAGE SPEED	0	59.74	0	59.75	0	59.69	0	59.90	0	59.71	0	59.71	0	59.71	0	60.55
DIRECTION	WB															
NUMBER OF VEHICLES	0	139	0	98	0	41	0	73	0	40	0	40	0	40	0	32
AVERAGE SPEED	0	60.81	0	60.18	0	62.29	0	60.55	0	59.35	0	59.35	0	59.35	0	62.11

TABLE 4 SPEED DATA

STATION RI-20 HIGHWAY I-69 LOCATION 2.4 miles north of SR 28

NO. OF LANES 4 TYPE OF SURFACE concrete WEATHER sunny

THIS OBSERVATION
DATE 3-21-79 LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
TIME 3:00 PM NB
TIME 3:19 - 4:04 PM SB

	PASSENGER CARS				NON-INDIANA				TRUCKS			
	INDIANA		ALL		INDIANA		ALL		<5000 LBS.		>5000 LBS.	
OBSERVATION	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT
NUMBER OF VEHICLES	270	0	208	0	62	0	154	0	0	41	0	113
AVE. SPEED (MPH)	60.22	0	60.88	0	61.18	0	60.10	0	58.61	0	60.65	0
STANDARD DEVIATION	5.333	0	5.158	0	5.222	0	5.005	0	5.890	0	4.551	0
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0	0	0	0	0	0	0
49 MPH	1.1	0	1.0	0	1.6	0	2.6	0	7.3	0	8.7	0
54 MPH	2.3	0	8.7	0	11.3	0	11.7	0	22.0	0	38.1	0
59 MPH	41.3	0	41.3	0	41.9	0	44.2	0	61.0	0	70.6	0
64 MPH	78.1	0	80.3	0	71.0	0	80.5	0	82.9	0	98.2	0
69 MPH	24.4	0	94.7	0	93.5	0	96.8	0	92.7	0	98.1	0
74 MPH	27.4	0	98.1	0	95.2	0	99.4	0	100.0	0	100.0	0
79 MPH	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0
84 MPH	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0
89 MPH	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0
DIRECTION	NB											
NUMBER OF VEHICLES	0	129	0	106	0	23	0	82	0	20	0	42
AVERAGE SPEED	0	59.55	0	59.81	0	58.35	0	59.23	0	56.55	0	60.10
DIRECTION	SB											
NUMBER OF VEHICLES	0	141	0	102	0	39	0	72	0	21	0	51
AVERAGE SPEED	0	62.23	0	61.99	0	62.85	0	61.10	0	60.57	0	61.31

TABLE 7 SPEED DATA

STATION 4L-7 HIGHWAY U.S. 40 LOCATION 11.9 miles east of U.S. 231

NO. OF LANES 4 TYPE OF SURFACE blacktop WEATHER cloudy

THIS OBSERVATION

DATE 3-13-79 LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)

TIME 10:35 AM - 1:32 PM EB
1:55-4:58 PM WB

	PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
	ALL	INDIANA	PRES-	ALL	INDIANA	PRES-	ALL	INDIANA	PRES-	ALL	INDIANA	PRES-
OBSERVATION	LASI	LASI	ENI	LASI	LASI	ENI	LASI	LASI	ENI	LASI	LASI	ENI
NUMBER OF VEHICLES	0	0	266	0	254	0	12	154	0	102	154	0
AVE. SPEED (MPH)	0	57.57	0	57.56	0	57.75	0	56.51	0	56.73	0	56.73
STANDARD DEVIATION	0	6.272	0	6.261	0	6.784	0	6.252	0	6.209	0	6.373
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	3.8	0	4	0	0	0	1.9	0	2.0	0	1.9
49 MPH	0	10.2	0	9.8	0	16.7	0	3.9	0	3.9	0	3.8
54 MPH	0	28.2	0	28.0	0	33.3	0	11.0	0	8.8	0	15.7
59 MPH	0	65.0	0	65.4	0	58.3	0	33.1	0	36.3	0	26.9
64 MPH	0	85.3	0	85.4	0	83.3	0	72.1	0	68.6	0	78.8
69 MPH	0	97.7	0	97.6	0	100.0	0	90.3	0	90.2	0	92.4
74 MPH	0	99.9	0	99.6	0	100.0	0	97.4	0	97.1	0	98.1
79 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION	EB											
NUMBER OF VEHICLES	0	115	0	106	0	9	0	90	0	56	0	34
AVERAGE SPEED	0	59.02	0	58.99	0	59.33	0	57.44	0	57.43	0	57.47
DIRECTION	WB											
NUMBER OF VEHICLES	0	151	0	148	0	3	0	64	0	46	0	18
AVERAGE SPEED	0	56.46	0	56.53	0	53.00	0	55.19	0	55.87	0	53.44



TABLE 8 SPEED DATA

STATION 4L-26 HIGHWAY S.R. 9 LOCATION 2.55 miles south of S.R. 128

NO. OF LANES 4 TYPE OF SURFACE blacktop WEATHER lt. fog (am), sunny (pm)

THIS OBSERVATION
DATE 3-21-79 LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
TIME 12:11-1:08 PM NB
TIME 10:51-11:59 AM SB

	PASSENGER CARS										TRUCKS																			
	ALL					INDIANA					NON-INDIANA					ALL					<5000 LBS.					>5000 LBS.				
	PRES-	ENT	LAST	PRES-	ENT	PRES-	ENT	LAST	PRES-	ENT	PRES-	ENT	LAST	PRES-	ENT	PRES-	ENT	LAST	PRES-	ENT	PRES-	ENT	PRES-	ENT	PRES-	ENT	PRES-	ENT	PRES-	ENT
OBSERVATION																														
NUMBER OF VEHICLES	0	311	0	0	305	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AVE. SPEED (MPH)	0	54.86	0	0	54.93	0	0	51.17	0	54.53	0	54.53	0	54.86	0	54.86	0	54.53	0	54.86	0	54.86	0	54.86	0	54.86	0	54.86	0	54.86
STANDARD DEVIATION	0	6.089	0	0	6.066	0	0	6.726	0	6.683	0	6.683	0	5.865	0	5.865	0	5.865	0	5.865	0	5.865	0	5.865	0	5.865	0	5.865	0	5.865
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	1.0	0	0	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	4.8	0	0	4.6	0	0	16.7	0	7.6	0	7.6	0	7.5	0	7.5	0	7.6	0	7.5	0	7.5	0	7.5	0	7.5	0	7.5	0	7.5
49 MPH	0	15.4	0	0	14.8	0	0	50.0	0	16.8	0	16.8	0	17.2	0	17.2	0	16.8	0	17.2	0	17.2	0	17.2	0	17.2	0	17.2	0	17.2
54 MPH	0	46.2	0	0	46.9	0	0	50.0	0	42.0	0	42.0	0	40.0	0	40.0	0	42.0	0	40.0	0	40.0	0	40.0	0	40.0	0	40.0	0	40.0
59 MPH	0	82.0	0	0	81.6	0	0	100.0	0	81.7	0	81.7	0	80.0	0	80.0	0	81.7	0	80.0	0	80.0	0	80.0	0	80.0	0	80.0	0	80.0
64 MPH	0	94.9	0	0	94.8	0	0	100.0	0	92.2	0	92.2	0	98.8	0	98.8	0	92.2	0	98.8	0	98.8	0	98.8	0	98.8	0	98.8	0	98.8
69 MPH	0	98.7	0	0	98.7	0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
74 MPH	0	99.4	0	0	99.3	0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
79 MPH	0	99.7	0	0	99.7	0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
84 MPH	0	99.7	0	0	99.7	0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
89 MPH	0	100.0	0	0	100.0	0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
DIRECTION																														
NUMBER OF VEHICLES	0	155	0	0	154	0	0	43.00	0	64	0	64	0	38	0	38	0	64	0	38	0	38	0	38	0	38	0	38	0	38
AVERAGE SPEED	0	54.04	0	0	54.11	0	0	43.00	0	53.73	0	53.73	0	53.89	0	53.89	0	53.73	0	53.89	0	53.89	0	53.89	0	53.89	0	53.89	0	53.89
DIRECTION																														
NUMBER OF VEHICLES	0	156	0	0	151	0	0	52.80	0	67	0	67	0	42	0	42	0	67	0	42	0	42	0	42	0	42	0	42	0	42
AVERAGE SPEED	0	55.67	0	0	55.76	0	0	52.80	0	55.28	0	55.28	0	55.74	0	55.74	0	55.28	0	55.74	0	55.74	0	55.74	0	55.74	0	55.74	0	55.74

TABLE 9 SPEED DATA

STATION --2L-18----

NO. OF LANES	2	TYPE OF SURFACE	blacktop	WEATHER	cloudy
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THIS OBSERVATION
DATE 4-3-79
TIME 10:20 AM - 12:40 PM

OBSERVATION	ALL			PASSENGER CARS			INDIANA			NON-INDIANA			ALL			TRUCKS		
	LASI	EMI	PRES-	LASI	EMI	PRES-	LASI	EMI	PRES-	LASI	EMI	PRES-	LASI	EMI	PRES-	LASI	EMI	PRES-
NUMBER OF VEHICLES	342	248		313	236		29	12		241	178		90	86		151	151	
AVE. SPEED (MPH)	58.00	57.96		57.90	57.90		59.10	59.17		55.10	56.64		57.00	57.70		53.90	55.95	
STANDARD DEVIATION	5.608	5.579		5.645	5.610		5.146	4.840		5.658	5.874		4.471	5.626		5.982	5.959	
24 MPH	0	0		0	0		0	0		0	0		0	0		0	0	
29 MPH	0	0		0	0		0	0		0	0		0	0		0	0	
34 MPH	0	0		0	0		0	0		0	0		0	0		0	0	
39 MPH	3	0		3	0		0	0		1.2	0		0	0		2.2	0	
44 MPH	3	8		3	8		0	0		6.6	1.7		1.1	3		9.9	3.3	
49 MPH	5	4		5	4		0	3		14.9	11.2		7.8	8.1		19.2	14.1	
54 MPH	22	25		23	25		17	25		32.8	34.8		24.4	26.7		49.0	42.4	
59 MPH	60	62		67	64		51	41		80.9	69.1		72.2	65.1		72.8	72.8	
64 MPH	92	89		93	89		86	100		97.5	93.3		96.7	93.0		98.0	93.5	
69 MPH	98	96		96	96		96	100		100.0	98.9		100.0	98.2		100.0	98.9	
74 MPH	98	99		98	99		100	100		100.0	99.4		100.0	98.8		100.0	100.0	
79 MPH	99	100		99	100		100	100		100.0	99.4		100.0	98.8		100.0	100.0	
84 MPH	99	100		99	100		100	100		100.0	100.0		100.0	100.0		100.0	100.0	
89 MPH	99	100		99	100		100	100		100.0	100.0		100.0	100.0		100.0	100.0	
DIRECTION	EB			EB														
NUMBER OF VEHICLES	171	128		158	123		15	5		126	89		46	42		80	41	
AVERAGE SPEED	58.40	57.48		58.40	57.45		58.10	58.40		56.20	56.31		57.40	57.54		55.50	54.88	
DIRECTION	WB			WB														
NUMBER OF VEHICLES	171	120		157	113		14	7		115	89		44	38		71	51	
AVERAGE SPEED	57.60	58.47		57.40	58.40		60.20	59.71		53.80	56.97		56.50	57.00		52.10	56.27	

TABLE 10 SPEED DATA

STATION 21-54 HIGHWAY U.S. 231 LOCATION 1.1 miles south of S.R. 234
NO. OF LANES 2 TYPE OF SURFACE blacktop WEATHER clear, sunny
THIS OBSERVATION
DATE 3-16-79 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 107)
TIME 10:07 AM DATE 10-3-78
TIME 10:09 AM TIME 1:00 PM

THIS OBSERVATION

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 107)

DATE 3-16-79

DATE 10-3-78

TIME 10:07 AM - 12:57 PM

TIME 10:00 AM - 1:00 PM

OBSERVATION	ALL			PASSENGER CARS			INDIANA			NON-INDIANA			ALL			TRUCKS		
	LAST	ENI	PRES-	LAST	ENI	PRES-	LAST	ENI	PRES-	LAST	ENI	PRES-	LAST	ENI	PRES-	LAST	ENI	PRES-
NUMBER OF VEHICLES	217	251		204	211		13	40		218	181		84	86		134	95	
AVE. SPEED (MPH)	57.40	57.75		57.30	57.37		58.60	59.70		56.70	56.67		57.80	57.90		56.70	55.57	
STANDARD DEVIATION	5.653	5.838		5.614	5.355		6.345	7.707		6.407	6.193		6.070	5.172		6.540	6.033	
24 MPH	0	0		0	0		0	0		0	0		0	0		0	0	
29 MPH	0	0		0	0		0	0		0	0		0	0		0	0	
34 MPH	0	0		0	0		0	0		0	0		0	0		0	0	
39 MPH	5	0		5	0		0	0		5	0		0	0		7	0	
44 MPH	2	4		1.0	0		0	2.5		2.8	2.2		1.2	0		3.0	0	
49 MPH	7.4	6.4		7.4	6.2		7.7	7.5		10.6	11.6		4.8	9.3		5.7	4.2	
54 MPH	28.6	28.3		28.9	29.9		23.1	20.0		30.7	37.6		25.0	31.4		14.2	13.7	
59 MPH	68.2	64.5		69.1	65.4		53.8	60.0		68.3	66.3		65.5	61.6		34.3	43.2	
64 MPH	90.8	88.4		91.2	89.6		84.6	82.5		92.7	89.0		91.7	86.0		70.1	70.5	
69 MPH	97.7	97.2		97.5	97.6		100.0	95.0		97.7	97.8		95.2	95.3		93.3	91.6	
74 MPH	100.0	99.2		100.0	99.5		100.0	97.5		99.5	100.0		98.8	100.0		99.3	100.0	
79 MPH	100.0	99.6		100.0	100.0		100.0	97.5		99.5	100.0		98.8	100.0		100.0	100.0	
84 MPH	100.0	99.6		100.0	100.0		100.0	97.5		100.0	100.0		100.0	100.0		100.0	100.0	
89 MPH	100.0	100.0		100.0	100.0		100.0	100.0		100.0	100.0		100.0	100.0		100.0	100.0	
DIRECTION																		
NUMBER OF VEHICLES	106	122		99	102		7	20		109	99		43	46		66	53	
AVERAGE SPEED	57.00	57.64		56.70	56.84		61.40	61.70		57.20	57.21		58.20	59.02		56.60	55.64	
DIRECTION																		
NUMBER OF VEHICLES	111	122		105	109		6	20		109	82		41	40		68	42	
AVERAGE SPEED	57.70	57.84		57.90	57.87		55.30	57.70		56.20	56.02		57.40	56.60		53.50	55.48	

TABLE 11 SPEED DATA

STATION 2L-30 HIGHWAY U.S. 52 LOCATION 1.1 miles east of New Palestine
 NO. OF LANES 2 TYPE OF SURFACE blacktop WEATHER clear

THIS OBSERVATION DATE 3-15-79 LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
 TIME 11:20 AM - 1:55 PM

	PASSENGER CARS				TRUCKS			
	INDIANA		NON-INDIANA		ALL		>5000 LBS.	
	PRES-	ENI	PRES-	ENI	PRES-	ENI	PRES-	ENI
OBSERVATION	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI
NUMBER OF VEHICLES	291	284	0	7	146	90	0	50
AVE. SPEED (MPH)	55.33	55.44	0	51.00	53.36	54.33	0	51.82
STANDARD DEVIATION	6.679	6.639	0	7.416	6.883	6.702	0	6.942
24 MPH	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0
39 MPH	1.4	1.4	0	0	1.4	0	0	0
44 MPH	4.8	4.6	0	14.3	2.7	2.2	0	3.6
49 MPH	15.5	14.8	0	42.9	8.2	6.7	0	10.7
54 MPH	44.7	43.7	0	85.7	23.3	17.8	0	32.1
59 MPH	78.0	77.8	0	85.7	58.2	52.2	0	67.9
64 MPH	91.4	91.5	0	85.7	84.9	82.2	0	89.3
69 MPH	97.9	97.9	0	103.0	95.9	94.4	0	98.2
74 MPH	99.2	98.9	0	100.0	98.6	97.8	0	100.0
79 MPH	99.3	99.2	0	100.0	100.0	100.0	0	100.0
84 MPH	99.7	99.6	0	100.0	100.0	100.0	0	100.0
89 MPH	100.0	100.0	0	100.0	100.0	100.0	0	100.0
DIRECTION	EB							
NUMBER OF VEHICLES	148	146	0	2	72	47	0	25
AVERAGE SPEED	55.01	55.10	0	49.00	53.51	53.94	0	52.72
DIRECTION	WB							
NUMBER OF VEHICLES	143	138	0	5	74	43	0	31
AVERAGE SPEED	55.66	55.80	0	51.80	53.22	54.77	0	51.6



TABLE 12 SPEED DATA

STATION 2L-23 HIGHWAY S.R. 28 LOCATION 1.8 miles west of S.R. 341

NO. OF LANES 2 TYPE OF SURFACE blacktop WEATHER clear, sunny

THIS OBSERVATION DATE 3-22-79 TIME 10:00 AM - 1:10 PM LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)

	PASSENGER CARS				NON-INDIANA				ALL				TRUCKS				
	INDIANA		PRES-		PRES-		PRES-		INDIANA		PRES-		PRES-		PRES-		
	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	
OBSERVATION	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	
NUMBER OF VEHICLES	0	267	0	248	0	19	0	157	0	77	0	77	0	77	0	77	
AVE. SPEED (MPH)	0	58.82	0	58.76	0	59.53	0	57.31	0	57.62	0	57.62	0	57.62	0	57.62	
STANDARD DEVIATION	0	6.519	0	6.655	0	4.432	0	5.722	0	5.594	0	5.594	0	5.594	0	5.594	
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
34 MPH	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	
39 MPH	0	1.1	0	1.2	0	0	0	0	0	0	0	0	0	0	0	0	
44 MPH	0	2.2	0	2.4	0	0	0	1.2	0	3.2	0	3.2	0	3.2	0	3.2	
49 MPH	0	4.5	0	4.8	0	0	0	5.1	0	5.2	0	5.2	0	5.2	0	5.2	
54 MPH	0	20.6	0	21.4	0	10.5	0	28.7	0	28.6	0	28.6	0	28.6	0	28.6	
59 MPH	0	59.2	0	58.9	0	63.2	0	67.5	0	66.2	0	66.2	0	66.2	0	66.2	
64 MPH	0	82.4	0	82.7	0	78.2	0	90.4	0	87.0	0	87.0	0	87.0	0	87.0	
69 MPH	0	93.6	0	93.1	0	100.0	0	98.7	0	96.1	0	96.1	0	96.1	0	96.1	
74 MPH	0	98.5	0	98.4	0	100.0	0	98.7	0	97.4	0	97.4	0	97.4	0	97.4	
79 MPH	0	100.0	0	100.0	0	100.0	0	99.4	0	98.7	0	98.7	0	98.7	0	98.7	
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	
DIRECTION	EB	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0
NUMBER OF VEHICLES	0	144	0	135	0	9	0	68	0	34	0	34	0	34	0	34	
AVERAGE SPEED	0	57.15	0	57.09	0	58.00	0	55.65	0	56.03	0	56.03	0	56.03	0	56.03	
DIRECTION	WB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NUMBER OF VEHICLES	0	123	0	113	0	10	0	89	0	43	0	43	0	43	0	43	
AVERAGE SPEED	0	60.77	0	60.76	0	60.90	0	58.57	0	58.88	0	58.88	0	58.88	0	58.88	



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TABLE 14 SPEED DATA

STATION WI-7 HIGHWAY I-70 LOCATION 0.6 miles east of I-465 (west leg)
 NO. OF LANES 6 TYPE OF SURFACE concrete WEATHER partly cloudy
 THIS OBSERVATION DATE 3-27-79 LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
 TIME 1:44-2:19 PM EB DATE
12:33-1:22 PM WB TIME

PASSENGER CARS										TRUCKS									
INDIANA					NON-INDIANA					ALL					<5000 LBS.				
PRES-					PRES-					PRES-					PRES-				
OBSERVATION	LAST	ENI	LAST	ENI	LAST	ENI	LAST	ENI	LAST	LAST	ENI	LAST	ENI	LAST	LAST	ENI	LAST	ENI	PRES-
NUMBER OF VEHICLES	0	221	0	178	0	43	0	207	0	85	0	85	0	122	0	122	0	122	0
AVE. SPEED (MPH)	0	59.43	0	59.51	0	59.09	0	57.55	0	57.78	0	57.78	0	57.32	0	57.32	0	57.32	0
STANDARD DEVIATION	0	4.687	0	4.697	0	4.684	0	4.971	0	4.971	0	4.971	0	5.272	0	5.272	0	5.272	0
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 MPH	0	1.8	0	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 MPH	0	12.7	0	12.9	0	11.6	0	24.2	0	24.2	0	24.2	0	24.2	0	24.2	0	24.2	0
59 MPH	0	53.8	0	51.1	0	65.1	0	64.7	0	64.7	0	64.7	0	65.5	0	65.5	0	65.5	0
64 MPH	0	88.2	0	88.8	0	86.0	0	94.7	0	94.7	0	94.7	0	95.3	0	95.3	0	95.3	0
69 MPH	0	97.7	0	98.3	0	95.3	0	99.0	0	99.0	0	99.0	0	100.0	0	100.0	0	100.0	0
74 MPH	0	99.1	0	98.2	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0
79 MPH	0	99.5	0	99.4	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0
DIRECTION	EB																		
NUMBER OF VEHICLES	0	112	0	92	0	13	0	103	0	103	0	103	0	54	0	54	0	54	0
AVERAGE SPEED	0	60.03	0	60.01	0	60.15	0	57.65	0	57.65	0	57.65	0	57.98	0	57.98	0	57.98	0
DIRECTION	WB																		
NUMBER OF VEHICLES	0	109	0	79	0	30	0	104	0	104	0	104	0	31	0	31	0	31	0
AVERAGE SPEED	0	58.82	0	58.89	0	58.63	0	57.44	0	57.44	0	57.44	0	57.42	0	57.42	0	57.42	0

TABLE 15 SPEED DATA

Rural

STATION RIALL HIGHWAY Interstate LOCATION see individual stations

NO. OF LANES TYPE OF SURFACE WEATHER

THIS OBSERVATION
DATE March-April 1979

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 107)
DATE October-December 1978

TIME TIME

PASSENGER CARS										TRUCKS					
INDIANA					NON-INDIANA					ALL					
PRES-		PRES-		PRES-		PRES-		PRES-		PRES-		PRES-		PRES-	
OBSERVATION	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST	ENT	LAST
NUMBER OF VEHICLES	0	1061	0	744	0	317	0	668	0	250	0	418	0	5200	185
AVE. SPEED (MPH)	0	60.38	0	60.40	0	60.35	0	59.94	0	59.10	0	60.44	0	59.00	185
STANDARD DEVIATION	0	4.961	0	4.980	0	4.923	0	5.236	0	5.389	0	5.082	0	5.00	185
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	3	0	4	0	0	0	1	0	0	0	0	0	0	0
49 MPH	0	1.2	0	1.1	0	1.6	0	3.6	0	5.2	0	2.6	0	2.6	0
54 MPH	0	9.6	0	9.5	0	9.8	0	13.5	0	17.6	0	11.0	0	11.0	0
59 MPH	0	43.7	0	44.0	0	43.2	0	45.7	0	53.2	0	41.1	0	41.1	0
64 MPH	0	83.3	0	83.3	0	83.3	0	80.7	0	86.8	0	77.0	0	77.0	0
69 MPH	0	95.6	0	95.3	0	96.2	0	96.9	0	95.6	0	97.6	0	97.6	0
74 MPH	0	98.9	0	98.9	0	98.7	0	99.7	0	99.6	0	99.8	0	99.8	0
79 MPH	0	99.9	0	99.9	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0
84 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0



TABLE 16 SPEED DATA

STATION 4ALL HIGHWAY 4 lane LOCATION see individual stations

NO. OF LANES TYPE OF SURFACE WEATHER

THIS OBSERVATION. LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 107)
 DATE March-April 1979 DATE October-December 1978
 TIME TIME

OBSERVATION	PASSENGER CARS						TRUCKS					
	ALL			INDIANA			NON-INDIANA			ALL		
	PRES-	ENI	LASI	PRES-	ENI	LASI	PRES-	ENI	LASI	PRES-	ENI	LASI
NUMBER OF VEHICLES	0	1086	0	0	982	0	0	104	0	647	0	342
AVE. SPEED (MPH)	0	56.88	0	0	56.75	0	0	58.09	0	56.29	0	56.38
STANDARD DEVIATION	0	5.989	0	0	6.032	0	0	5.445	0	6.031	0	5.192
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0	0	0	0	0	0	0
49 MPH	0	0	0	0	0	0	0	0	0	0	0	0
54 MPH	0	0	0	0	0	0	0	0	0	0	0	0
59 MPH	0	0	0	0	0	0	0	0	0	0	0	0
64 MPH	0	0	0	0	0	0	0	0	0	0	0	0
69 MPH	0	0	0	0	0	0	0	0	0	0	0	0
74 MPH	0	0	0	0	0	0	0	0	0	0	0	0
79 MPH	0	0	0	0	0	0	0	0	0	0	0	0
84 MPH	0	0	0	0	0	0	0	0	0	0	0	0
89 MPH	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 17 SPEED DATA

STATION 2ALL HIGHWAY 2 lane LOCATION see individual stations

NO. OF LANES TYPE OF SURFACE WEATHER

THIS OBSERVATION DATE March-April 1979 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 107)
 DATE October-December 1978
 TIME

	PASSENGER CARS				TRUCKS			
	INDIANA		NON-INDIANA		ALL		>5000 LBS.	
	PRES-	ENI	LAST	PRES-	PRES-	ENI	LAST	PRES-
OBSERVATION	LAST	ENI	LAST	LAST	ENI	LAST	LAST	ENI
NUMBER OF VEHICLES	0	1057	0	979	0	662	0	339
AVE. SPEED (MPH)	0	57.43	0	57.29	0	56.08	0	56.84
STANDARD DEVIATION	0	6.332	0	6.270	0	6.322	0	6.436
24 MPH	0	0	0	0	0	0	0	0
27 MPH	0	0	0	0	0	0	0	0
34 MPH	0	1	0	1	0	3	0	0
39 MPH	0	7	0	7	0	6	0	6
44 MPH	0	2.2	0	2.1	0	3.3	0	2.7
49 MPH	0	7.9	0	7.9	0	12.5	0	10.3
54 MPH	0	37.1	0	30.3	0	39.3	0	35.1
59 MPH	0	66.5	0	67.6	0	71.2	0	69.0
64 MPH	0	88.1	0	88.4	0	92.0	0	90.3
69 MPH	0	96.3	0	96.2	0	98.3	0	97.1
74 MPH	0	99.3	0	99.0	0	99.5	0	99.1
79 MPH	0	99.7	0	99.8	0	99.7	0	99.4
84 MPH	0	99.8	0	99.9	0	100.0	0	100.0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN								
	0	2.2	0	2.1	0	3.3	0	2.7
	0	7.9	0	7.9	0	12.5	0	10.3
	0	37.1	0	30.3	0	39.3	0	35.1
	0	66.5	0	67.6	0	71.2	0	69.0
	0	88.1	0	88.4	0	92.0	0	90.3
	0	96.3	0	96.2	0	98.3	0	97.1
	0	99.3	0	99.0	0	99.5	0	99.1
	0	99.7	0	99.8	0	99.7	0	99.4
	0	99.8	0	99.9	0	100.0	0	100.0
	0	100.0	0	100.0	0	100.0	0	100.0

TABLE 18--SPEED DATA

Urban

STATION U1ALL HIGHWAY Interstate

LOCATION see individual stations

NO. OF LANES

TYPE OF SURFACE

WEATHER

THIS OBSERVATION

DATE March=April 1979

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 107)

DATE October=December 1978
TIME

OBSERVATION	ALL			PASSENGER CARS			NON-INDIANA			ALL			TRUCKS		
	INDIANA			INDIANA			INDIANA			INDIANA			INDIANA		
	PRES-	ENT	LAST	PRES-	ENT	LAST	PRES-	ENT	LAST	PRES-	ENT	LAST	PRES-	ENT	LAST
NUMBER OF VEHICLES	0	424	0	0	434	0	0	60	0	356	0	167	0	189	0
AVE. SPEED (MPH)	0	58.82	0	0	58.76	0	0	59.22	0	57.37	0	57.92	0	56.88	0
STANDARD DEVIATION	0	4.620	0	0	4.610	0	0	4.716	0	4.801	0	4.323	0	5.150	0
24 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54 MPH	0	2.4	0	0	2.8	0	0	0	0	5.6	0	3.0	0	1.9	0
59 MPH	0	15.4	0	0	15.7	0	0	13.3	0	23.0	0	22.8	0	27.0	0
64 MPH	0	57.9	0	0	57.4	0	0	61.7	0	67.4	0	64.1	0	70.4	0
69 MPH	0	21.3	0	0	21.7	0	0	88.3	0	95.5	0	95.2	0	95.8	0
74 MPH	0	98.4	0	0	98.8	0	0	95.0	0	99.4	0	100.0	0	98.9	0
79 MPH	0	99.4	0	0	99.3	0	0	100.0	0	100.0	0	100.0	0	100.0	0
84 MPH	0	99.6	0	0	99.5	0	0	100.0	0	100.0	0	100.0	0	100.0	0
89 MPH	0	100.0	0	0	100.0	0	0	100.0	0	100.0	0	100.0	0	100.0	0
PERCENT OF VEHICLES TRAVELING AT OR LESS THAN	0	100.0	0	0	100.0	0	0	100.0	0	100.0	0	100.0	0	100.0	0

TABLE 19 SPEED DATA

Indiana

LOCATION see individual stations

STATION ALL HIGHWAY SYSTEM

NO. OF LANES TYPE OF SURFACE WEATHER

THIS OBSERVATION

DATE March-April-1979

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 107)

DATE October-December-1978

OBSERVATION	PASSENGER CARS				NON-INDIANA				TRUCKS					
	ALL		INDIANA		PRES-		ALL		PRES-		ALL		PRES-	
NUMBER OF VEHICLES	LAST	ENTR	LAST	ENTR	LAST	ENTR	LAST	ENTR	LAST	ENTR	LAST	ENTR	LAST	ENTR
AVE. SPEED (MPH)	0	368	0	3139	0	559	0	2333	0	1098	0	1235	0	1235
STANDARD DEVIATION	0	58.29	0	58.06	0	59.59	0	57.44	0	57.37	0	57.50	0	57.50
24 MPH	0	5.830	0	5.875	0	5.393	0	5.953	0	5.935	0	5.970	0	5.970
29 MPH	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 MPH	0	1	0	1	0	0	0	0	0	0	0	0	0	0
39 MPH	0	1.4	0	1.9	0	0	0	1	0	0	0	0	0	0
44 MPH	0	1.77	0	1.9	0	0	0	6.3	0	5	0	0	0	0
49 MPH	0	5.8	0	6.2	0	3.4	0	9.0	0	2.2	0	0	0	0
54 MPH	0	22.6	0	24.0	0	14.3	0	28.1	0	8.8	0	0	0	0
59 MPH	0	59.8	0	61.5	0	51.7	0	63.6	0	21.5	0	0	0	0
64 MPH	0	88.0	0	88.5	0	85.2	0	89.5	0	65.7	0	0	0	0
69 MPH	0	96.0	0	97.0	0	96.6	0	98.2	0	80.9	0	0	0	0
74 MPH	0	99.2	0	99.2	0	99.1	0	99.7	0	97.4	0	0	0	0
79 MPH	0	99.3	0	99.3	0	99.18	0	99.9	0	99.5	0	0	0	0
84 MPH	0	99.9	0	99.9	0	99.8	0	99.9	0	99.3	0	0	0	0
89 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	0	0	0
94 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	0	0	0
99 MPH	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	0	0	0

Table 20

Monitoring of Speed
(Statistical Summary)☒ Quarterly Report--Calendar Quarter Ending March 31, 1979

or

☐ Annual Report--Year Ending _____STATE Indiana

	Miles	Number of Monitor Locations	Number of Vehicles Measured	Duration of Measurement Session (Hours)	Average Speed (MPH)	Median Speed (MPH)	85th Percentile Speed (MPH)	Percent of Motorists Exceeding		
								55 MPH	60 MPH	65 MPH
Interstate Urban	218	2	850	2.8	58.2	57.9	62.2	75	28	5
Interstate Rural	849	4	1,729	8.5	60.2	59.6	64.6	85	46	13
Multi-lane, Divided	657	4	1,733	13.6	56.7	56.3	62.0	61	24	6
Multi-lane, Undivided				(Included in multi-lane, divided classification)						
2-Lane, Rural	8,030	4	1,719	10.9	56.9	56.2	62.3	59	25	8
State Total	9,754	14	6,031	35.8	58.0	57.5	63.1	69	31	8

TABLE 21

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	INTERSTATE, RURAL		
STATION NUMBER	RI-6	LOCATION	I-65 2.3 miles south of SR 56
NUMBER OF SESSIONS	1	DATES	4-5-79
		VEHICLES MEASURED	447
AVERAGE SPEED (MPH)	60.7	STANDARD DEVIATION	4.5
MEDIAN SPEED (MPH)	62.0	85TH PERCENTILE SPEED (MPH)	64.6
PERCENTAGE OF VEHICLES EXCEEDING:			
55 MPH	89	60 MPH	50
		55 MPH	13

TABLE 22-

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	INTERSTATE, RURAL		
STATION NUMBER	RI-21	LOCATION	I-69 1.6 miles south of SR 18
NUMBER OF SESSIONS	1	DATES	3-14-79
		VEHICLES MEASURED	427
AVERAGE SPEED (MPH)	59.2	STANDARD DEVIATION	4.9
MEDIAN SPEED (MPH)	58.9	85TH PERCENTILE SPEED (MPH)	63.5
PERCENTAGE OF VEHICLES EXCEEDING:			
55 MPH	79	60 MPH	39
		65 MPH	9

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY INTERSTATE, RURAL
 STATION NUMBER R1-5 LOCATION I-64 5.35 miles east of SR 135
 NUMBER OF SESSIONS 1 DATES 4-9-79 VEHICLES MEASURED 431
 AVERAGE SPEED (MPH) 60.3 STANDARD DEVIATION 5.5
 MEDIAN SPEED (MPH) 59.6 85TH PERCENTILE SPEED (MPH) 64.8
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 84 60 MPH 47 65 MPH 14

TABLE 24

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY INTERSTATE, RURAL
 STATION NUMBER RI-20 LOCATION I-69 2.4 miles north of SR 28
 NUMBER OF SESSIONS 1 DATES 3-21-79 VEHICLES MEASURED 424
 AVERAGE SPEED (MPH) 60.6 STANDARD DEVIATION 5.2
 MEDIAN SPEED (MPH) 59.9 85TH PERCENTILE SPEED (MPH) 65.1
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 87 60 MPH 49 65 MPH 16

TABLE 25

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)
 STATION NUMBER 41-17 LOCATION US 52, 150' east of CR 475W, Tippecano Co.
 NUMBER OF SESSIONS 1 DATES 3-12-79 VEHICLES MEASURED 442
 AVERAGE SPEED (MPH) 56.4 STANDARD DEVIATION 5.9
 MEDIAN SPEED (MPH) 56.5 85TH PERCENTILE SPEED (MPH) 61.5
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 60 60 MPH 24 65 MPH 3

TABLE 26 -

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)
 STATION NUMBER 41-32 LOCATION US 30, 2.9 miles west of Manatah City limit sign
 NUMBER OF SESSIONS 1 DATES 4-6-79 VEHICLES MEASURED 429
 AVERAGE SPEED (MPH) 58.4 STANDARD DEVIATION 5.3
 MEDIAN SPEED (MPH) 57.7 85TH PERCENTILE SPEED (MPH) 63.2
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 74 60 MPH 32 65 MPH 8

TABLE 27

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)
 STATION NUMBER 4L-7 LOCATION US 40, 11.9 miles east of US 231
 NUMBER OF SESSIONS 1 DATES 3-13-79 VEHICLES MEASURED 420
 AVERAGE SPEED (MPH) 57.2 STANDARD DEVIATION 6.3
 MEDIAN SPEED (MPH) 56.6 85TH PERCENTILE SPEED (MPH) 62.8
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 64.2 60 MPH 26.2 65 MPH 9.2

TABLE 28

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)
 STATION NUMBER 4L-26 LOCATION SR 9, 2.55 miles south of SR 128
 NUMBER OF SESSIONS 1 DATES 3-21-79 VEHICLES MEASURED 442
 AVERAGE SPEED (MPH) 54.8 STANDARD DEVIATION 6.0
 MEDIAN SPEED (MPH) 54.6 85TH PERCENTILE SPEED (MPH) 59.6
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 47 60 MPH 13 65 MPH 3

TABLE 20---

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY TWO-LANE, RURAL
 STATION NUMBER 21-18 LOCATION US 35, 2.4 miles east of I-69
 NUMBER OF SESSIONS 1 DATES 4-3-79 VEHICLES MEASURED 426
 AVERAGE SPEED (MPH) 57.4 STANDARD DEVIATION 5.7
 MEDIAN SPEED (MPH) 56.8 85TH PERCENTILE SPEED (MPH) 62.1
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 64 60 MPH 28 65 MPH 8

TABLE 30

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY TWO-LANE RURAL
 STATION NUMBER 2L-54 LOCATION US 231, 1.1 miles south of SR 234
 NUMBER OF SESSIONS 1 DATES 3-16-79 VEHICLES MEASURED 432
 AVERAGE SPED (MPH) 57.3 STANDARD DEVIATION 6.0
 MEDIAN SPEED (MPH) 56.8 85TH PERCENTILE SPEED (MPH) 63.2
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 61 60 MPH 27 65 MPH 7

TABLE 31--

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	TWO-LANE, RURAL	
STATION NUMBER	2L-30	LOCATION US 52, 1.1 miles eas t of New Palestine
NUMBER OF SESSIONS	1	DATES 3-15-79 VEHICLES MEASURED 437
AVERAGE SPEED (MPH)	54.7	STANDARD DEVIATION 6.8
MEDIAN SPEED (MPH)	54.1	85TH PERCENTILE SPEED (MPH) 60.2
PERCENTAGE OF VEHICLES EXCEEDING:		
55 MPH	43	60 MPH 16 65 MPH 6

TABLE 32

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY TWO-LANE, RURAL
 STATION NUMBER 21-23 LOCATION SR 28, 1.8 miles west of SR 341
 NUMBER OF SESSIONS 1 DATES 3-22-79 VEHICLES MEASURED 424
 AVERAGE SPEED (MPH) 58.3 STANDARD DEVIATION 6.3
 MEDIAN SPEED (MPH) 57.1 85TH PERCENTILE SPEED (MPH) 63.8
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 68 60 MPH 32 65 MPH 13

TABLE 33

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	INTERSTATE, URBAN		
STATION NUMBER	UI-6	LOCATION	I-65, just east of White River
NUMBER OF SESSIONS	1	DATES	3-27-79
		VEHICLES MEASURED	422
AVERAGE SPEED (MPH)	57.9	STANDARD DEVIATION	4.6
MEDIAN SPEED (MPH)	57.5	85TH PERCENTILE SPEED (MPH)	61.8
PERCENTAGE OF VEHICLES EXCEEDING:			
55 MPH	74	60 MPH	25
		65 MPH	4

TABLE 34

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY	<u>INTERSTATE, URBAN</u>		
STATION NUMBER	<u>UI-7</u>	LOCATION	<u>I-70, 0.6 miles east of I-465 (west leg)</u>
NUMBER OF SESSIONS	<u>1</u>	DATES	<u>3-27-79</u> VEHICLES MEASURED <u>428</u>
AVERAGE SPEED (MPH)	<u>58.5</u>	STANDARD DEVIATION	<u>4.9</u>
MEDIAN SPEED (MPH)	<u>58.2</u>	85TH PERCENTILE SPEED (MPH)	<u>62.7</u>
PERCENTAGE OF VEHICLES EXCEEDING:			
55 MPH	<u>77</u>	60 MPH	<u>31</u>
		65 MPH	<u>7</u>

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